Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Modified Estimate

Name of the work :- Construction of RO Plant and Drilling of Borewells installation of Pump and motors, providing pipeline and additional motor pumps and necessary accessories to existing borewells in Bellahlli, Kattigenahlli, Chokkanahlli, Thirumenahalli, Palanahalli, Agrahara, Sampigenahlli, Srirampura, Jakkur, Kogilu in Ward No.05

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Drilling and Providing Pump and Motor								
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		Each BW	85				85.00		
							Total executed Qty	85.00	
							Tender Qty	69.00	
							Qty Upto 125%	**85.00**	4220.00	358700.00
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)	Rmtr							
	0 to 50 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		
							Qty Upto 125%	**4250.00**	389.00	1653250.00
3	50 to 100 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		
							Qty Upto 125%	**4250.00**	496.00	2108000.00
4	100 to 150 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		
							Qty Upto 125%	**4250.00**	511.00	2171750.00
5	150 to 200 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		
							Qty Upto 125%	**4250.00**	601.00	2554250.00
6	200 to 250 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		
							Qty Upto 125%	**4250.00**	711.00	3021750.00
7	250 to 300 m		85	50.00			4250.00		
							Total executed Qty	4250.00		
							Tender Qty	3450.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
						Qty Upto 125%	4250.00	785.00	3336250.00
8	300 to 350 m		85	50.00			4250.00		
						Total executed Qty	4250.00		
						Tender Qty	3450.00		
						Qty Upto 125%	4250.00	250.00	1062500.00
9	350 to above		85	50.00			4250.00		
						Total executed Qty	4250.00		
						Tender Qty	3450.00		
						Qty Upto 125%	4250.00	713.00	3030250.00
10	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)								
		Rmtr	85	60.00			5100.00		
						Total executed Qty	5100.00		
						Tender Qty	4140.00		
						Qty Upto 125%	5100.00	1480.00	7548000.00
11	Providing and fixing 250mm dia PVC pipe and as per specification and directions. (BWSSB SR 18-19, P.No.133 sl.no.1.11.)	Rmtr							
			85	13.06			1110.10		
						Total executed Qty	1110.10		
						Tender Qty	690.00		
						Qty Upto 125%	862.50	1518.00	1309275.00
						Qty Above 125%	247.60	1449.19	358821.00
12	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)	Each							
			85				85.00		
						Total executed Qty	85.00		
						Tender Qty	69.00		
						Qty Upto 125%	85.00	103.00	8755.00
13	M.S. Casing pipe collars 'C' Class (P.NO-III, I.NO-86, PRED 12-13 SR)	Each	85	10.00			850.00		
						Total executed Qty	850.00		
						Tender Qty	690.00		
						Qty Upto 125%	850.00	154.00	130900.00
14	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm P No. 49 No 6.4 KPWD Electrical SR 14-15 16 swg	Sqm							
			79	1100.00	20.00		1738000.00		
						Total executed Qty	1738000.00		
						Tender Qty	1518000.00		
						Qty Upto 125%	1738000.00	0.33	573540.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No -144, I.No -28, BWSSB SR	Each							
	for extra bore		3	54.00			162.00		
			69	61.00			4209.00		
						Total executed Qty	**4371.00**		
						Tender Qty	**3450.00**		
						Qty Upto 125%	**4312.50**	**100.00**	**431250.00**
						Qty Above 125%	**58.50**	**95.67**	**5597.00**
16	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 45 No 6.7.3 KPWD Electrical SR 14-15**	No.							
	63 Amps		69	3.00			**207.00**		
						Total executed Qty	**207.00**	**234.00**	**48438.00**
17	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) KPWD Electrical SR 14-15 p no 55 i7.4.4	Mtr							
			69	35.00			**2415.00**		
						Total executed Qty	**2415.00**	**140.00**	**338100.00**
18	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces KPWD Electrical SR 14-15 p no 61 7.9	Mtr							
			69	35.00			**2415.00**		
						Total executed Qty	**2415.00**	**120.00**	**289800.00**
19	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mmKPWD Electrical SR 14-15 p no 62 7.12.1	Mtr							
			69	2.00			**138.00**		
						Total executed Qty	**138.00**	**300.00**	**41400.00**
20	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia ,KPWD Electrical SR 14-15 p no 55 7.2	No's							
			69				**69.00**		
						Total executed Qty	**69.00**	**4350.00**	**300150.00**
21	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,KPWD Electrical SR 14-15 p no 62 7.13.2	No's							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			69				69.00		
						Total executed Qty	69.00	280.00	19320.00
22	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches ,KPWD Electrical SR 14-15 p no 44 i no	No's							
			69				69.00		
						Total executed Qty	69.00	302.00	20838.00
23	Cleaning of bore well inciuding yield tetsting of borewell either using slow or fast rig for not more than 2 hours at the final depth with air compressor or suitable pump as per specification (PRED 12-13 SL NO.9.5 PAGE NO.49)	each	3				3.00		
						Total executed Qty	3.00	11000.00	33000.00
24	Borewell Clamp Set (PWD SR 2018-19, Page No. XLVII, Sl nO. 17)	Set	69				69.00		
						Total executed Qty	69.00	1800.00	124200.00
25	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.50 HP 30 stage (P.NO-XLII, I.NO-49, PWD SR 18-19)	No							
	17.5HP 30 Stage		43				43.00		
						Total executed Qty	43.00	78000.00	3354000.00
26	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 20HP 40 stage (P.NO-XLII, I.NO-60, PWD SR 18-19)								
	20 HP 40 Stage	No	26				26.00		
						Total executed Qty	26.00	98000.00	2548000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
27	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class (SR 18-19 PWD, P.No.XLVII Sl.no. 1	Rmtr							
	for extra bore		3	324.00			972.00		
			69	366.00			25254.00		
						Total executed Qty	26226.00	435.00	11408310.00
28	Supply and fixing Heavy Collar for GI Pipes 50MM (Page No. XLVII, Sl NO.2, PWD SR-2018-19	No's							
			3	67.00			201.00		
			69	61.00			4209.00		
						Total executed Qty	4410.00		
						Tender Qty	3864.00		
						Qty Upto 125%	4410.00	190.00	837900.00
29	Supplying of submersible pump cable 1X3X6..0 Sq.mm (Page No. XLVII, Sl NO. 8, PWD SR-2018-19	Mtr							
			3	670.00			2010.00		
			69	758.00			52302.00		
						Total executed Qty	54312.00	145.00	7875240.00
30	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) Page No. XLVII, Sl NO. 13, PWD SR 2018-19	No.							
			69				69.00		
						Total executed Qty	69.00	22000.00	1518000.00
31	Supplying & delivery of brand 50mm Gate Valve. (PWD SR 18-19, P.NO.XLVII Sl.no, 15	No's							
			69				69.00		
						Total executed Qty	69.00	1800.00	124200.00
32	Supplying & delivery of brand 50mm Non Return Valve. (PWD SR 18-19, P.NO.XLVII Sl.no, 16	No's							
			69				69.00		
						Total executed Qty	69.00	1800.00	124200.00
33	Supplying and fixing MCB (P.NO - XLVII, SL.NO - 19, PWD SR 18-19)	No's							
			69				69.00		
						Total executed Qty	69.00	900.00	62100.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
34	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19)	Cum							
			69	366.90	0.60	0.75	**11392.25**		
						Total executed Qty	**11392.25**		
						Tender Qty	**10929.60**		
						Qty Upto 125%	**11392.25**	**318.00**	**3622734.00**
35	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 18-19)	Mtr							
			69	366.90			**25316.10**		
						Total executed Qty	**25316.10**		
						Tender Qty	**24288.00**		
						Qty Upto 125%	**25316.10**	**395.00**	**9999860.00**
36	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19)	Cum							
			69	366.90	0.60	0.75	**11392.25**		
						Total executed Qty	**11392.25**		
						Tender Qty	**10929.60**		
						Qty Upto 125%	**11392.25**	**129.00**	**1469600.00**
37	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						
38	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
39	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						
40	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						
41	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						
42	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates :@0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the engineer incharge.	cum	Item Not Operated						
43	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour completeas per specifications and directions of the engineer incharge.	cum	Item Not Operated						
44	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundationfor footing ,pedestals ,retaining walls ,retern walls , walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks, and plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications and directions of the engineer incharge. .	cum	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
45	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the engineer incharge.	m	Item Not Operated						
46	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
47	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of engineer in charge.	sqm	Item Not Operated						
48	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification and directions of engineer in charge.	sqm	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
49	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
50	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar	sqm	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
51	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. using aluminium section powdered coated to a	sqm	Item Not Operated						
52	Providing flooring with 60 cms.x 60 cms. size Vitrified glazed tiles of approved quality & rnake, fixed on top of existing flooring fixed with suitable adhesive, including cutting the tiles to the required size and fixing etc., complete.complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
53	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery. Shutter size 3mx2.8 m complete as per specifications and Engineer incharge.	43.2	Item Not Operated						
54	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.completeas per specifications and directions of the engineer incharge.	kg	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
55	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick CM 1:4 and jointed with neat cement slurry mixed with pigments to match shade of granite slabs including laying of POP on finished surface and claning the surface including cost of all meterials and labour etc, complete as per specifications.using solver grey granite/multy red/ruby red/black/Hassan green granite of width not less than 1200mm, complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
56	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications, with primer completeas per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
57	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer completeas per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
58	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour,complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
59	Conveying the excavated earth by private vehicle up to 15KMS including lead and lift loading unloading etc., complete as per specifications and Engineer incharge.	cum	Item Not Operated						
60	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI complete as per specifications and directions of the engineer incharge.	litre	Item Not Operated						
61	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)25MM DIA complete as per specifications and Engineer incharge.	M	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
62	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. 13.2.6 / 13.3 complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
63	SKID SS 202, PUMP CRI1HP, VESSEL-1354 PENTAIR, PRESSURE GAZE 10KGS NORMAL, MPV-1"NB FRONT FACE FILTER, HOUSING 20"JUMBO-1", SPUN 20 JUMBO, PUMP CRI 2 -180-3, PT-8040 FRP PANTHER, MEMBRANE DOW 8040, CONTROLL PANNEL 1X3 (SUPER), ROTAMETER 120-1680 ACRYLIC, ROTAMETER 400-2000 ACRYLIC, PRESSURE GAZE GLYSERINE - 21KG PANTHER, BRINE CON VALVE 3/4, ACRYLIC SHEET, LPS DENFOS, HPS DENFOS, DOSINGPUMP DOSE, SAND, CHEEPS, ACTIVATED CARBON INDUSTRIAL, ANTI DOSING CHEMICAL, HANDLE VALVE, ASSEMBLING AND COMMISSIONING, TANK SS304 1000LTR INCLUSIVE OF AUTOMATED COIN MACHINE complete as per specifications and directions of the engineer incharge.	nos	Item Not Operated						
64	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/25 mm dia 2mm thickcomplete as per specifications and directions of the engineer incharge.	mts	Item Not Operated						
65	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8"x6"x3"(203x152x76mm) completeas per specifications and directions of the engineer incharge.	each	Item Not Operated						
66	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
67	b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let viaswitch complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
68	c)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
69	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a fiush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way complete aas per specifications and directions of the engineer incharge.	each	Item Not Operated						
70	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm complete as per specifications and directions of the engineer incharge.	m	Item Not Operated						
71	b)2.5Sqmm as per specifications and directions of the engineer incharge.	m	Item Not Operated						
72	c)4 sqmmas per specifications and directions of the engineer incharge.	m	Item Not Operated						
73	Supplying and fixing phylum brand hand plastic sheet 4mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws complete as per specifications and directions of the engineer incharge.	sqm	Item Not Operated						
74	Supplying and fixing pbbc bakelight stright or slant batton holderand wiring within 60v/230volts lamp group A complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
75	Supply patti type tube light fittings of 4'-28 watts fluorescent tube fittings made out of Ms sheet ans stove enameled with low loss open construction copper wound ferromagnetic ballast starter ,locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC supply including t5 lamp completeas per specifications and directions of the engineer incharge.	each	Item Not Operated						
76	Supply wall mountaing fan suitable to operate of single phase -230v A.C supply 400mm sweep a.group A complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
77	Supplying decorative horizontal type street light fluorocent fitting weather and water proof complete complete with energy saving electronoc ballast etc., locking type brass contact holders with one number of 4ft 40watt flourcent tube completely wired for use on 230/250volts 50cycles AC supply with opel reeded parspex cover of bottom complete fitting 1x4'-28watts complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
78	FSUPPLING OF 2 PIN/4PIN 18W CFL LAMP complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
79	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5" 6complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
80	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
81	Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
82	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)5-32amps TPN . Group A completeas per specifications and directions of the engineer incharge.	each	Item Not Operated						
83	5-32amps TPNcomplete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
84	Supplying fixing and wiring Electronic10 to 40 amps Three phase 4wire class -1 Accuracy energy meter Group A complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
85	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.complete as per specifications and directions of the engineer incharge.	NO	Item Not Operated						
86	Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 25x3mm completeas per specifications and directions of the engineer incharge.	m	Item Not Operated						
87	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable.d) 4 core 16 sqmm chaptcomplete as per specifications and Engineer incharge.	m	Item Not Operated						

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
88	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.a) 6 sqmm to 16 sqmm completeas per specifications and directions of the engineer incharge.	m	Item Not Operated						
89	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.a) In soil (ordinary) completeas per specifications and directions of the engineer incharge.	m	Item Not Operated						
90	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm complete as per specifications and Engineer incharge.	m	Item Not Operated						
91	Supplying &fixing L.T.cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers ect.b) 16 Sqmm complete as per specifications and directions of the engineer incharge.	each	Item Not Operated						
E1	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15 HP 35 stage (P.NO-XLII, I.NO-44, PWD SR 18-19)								
	15HP 35 Stage	No	6				6.00		
							Total executed Qty	**6.00**	**70426.19**	**422558.00**
E2	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 12.5 HP 25 stage (P.NO-XLI, I.NO-35, PWD SR 18-19)								
	12.5HP 25 Stage	No	1				1.00		
							Total executed Qty	**1.00**	**58664.92**	**58665.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
E3	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 10 HP 30 stage (P.NO-XLI, I.NO-31, PWD SR 18-19)								
	10HP 30 Stage	No	5				5.00		
						Total executed Qty	5.00	60798.79	303994.00
E4	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 10 HP 20 stage (P.NO-XLI, I.NO-29, PWD SR 18-19)								
	10HP 20 Stage	No	1				1.00		
						Total executed Qty	1.00	51948.20	51949.00
E5	Supplying of submersible pump cable 1X3X4.0 Sq.mm (Page No. XLVII, Sl NO. 7, PWD SR-2018-19	Mtr	1	600.00			600.00		
						Total executed Qty	600.00	112.31	67386.00
	Bescom Charge								
	17.5HP	Nos	53				53.00	20178.00	1069434.00
	20 Hp	Nos	16				16.00	21528.00	344448.00
						Total of Other SR Items including GST Unit Rate			30720884.00
						Total of PWD SR 2018-19 Items			44005896.00
						Sub Total amount			76140662.00
	For 12% GST for Only PWD SR-2018-19 items								5280708.00
								Grand Total	81421370.00

Assistant Engineer
Yelahanka Project Division

Executive Engineer
Yelahanka Project Division

Assistant Executive Engineer
Yelahanka Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Technical Sanction
Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

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Head of A/C... 03747
CER NO :04/22-23 Dt: 24/5/22